

```
=> fil reg
FILE 'REGISTRY' ENTERED AT 14:05:47 ON 11 SEP 2008
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```

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1
DICTIONARY FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

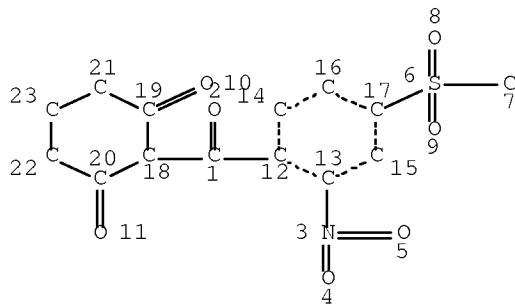
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=> d que stat 12
L1          STR
```



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

```
L2          165 SEA FILE=REGISTRY FAM FUL L1
```

100.0% PROCESSED 197 ITERATIONS
SEARCH TIME: 00.00.01

165 ANSWERS

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=> d his nofile 13-
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(FILE 'REGISTRY' ENTERED AT 13:59:44 ON 11 SEP 2008)

ACT PHOS/A

L3 (6) SEA ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN OR
"PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)/CN OR
"PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR "PHOSPHATE (P4O123-)/CN)
L4 (2) SEA ABB=ON PLU=ON (PHOSPHONATE/CN OR "PHOSPHONATE (H2PO31-)/CN
OR "PHOSPHONATE (HPO32-)/CN)
L5 (1) SEA ABB=ON PLU=ON (PHOSPHINATE/CN OR "PHOSPHINATE (H2PO21-)/CN)
L6 9 SEA ABB=ON PLU=ON (L3 OR L4 OR L5)

E PHOSPHORIC ACID/CN
L7 1 SEA ABB=ON PLU=ON "PHOSPHORIC ACID"/CN
D SCAN

FILE 'CAPLUS' ENTERED AT 14:00:26 ON 11 SEP 2008

L8 333 SEA ABB=ON PLU=ON L2
L9 125003 SEA ABB=ON PLU=ON L6 OR L7
L10 76200 SEA ABB=ON PLU=ON L7
L11 77136 SEA ABB=ON PLU=ON HERBICIDE?/OBI
L12 135 SEA ABB=ON PLU=ON L10 AND L11
L13 24654 SEA ABB=ON PLU=ON ADJUVANT?/OBI
L14 9 SEA ABB=ON PLU=ON L12 AND L13
L15 3 SEA ABB=ON PLU=ON L8 AND L10

FILE 'REGISTRY' ENTERED AT 14:02:18 ON 11 SEP 2008

FILE 'CAPLUS' ENTERED AT 14:02:31 ON 11 SEP 2008

L*** DEL 3 S L8 AND L10
D SCAN TI
L16 4 SEA ABB=ON PLU=ON L9 AND L8
D SCAN TI
L17 246 SEA ABB=ON PLU=ON L11 AND L9
L18 11 SEA ABB=ON PLU=ON L17 AND L13
L19 13 SEA ABB=ON PLU=ON L14 OR L15 OR L16 OR L18
L20 591961 SEA ABB=ON PLU=ON PHOSPHAT?/OBI
L21 11 SEA ABB=ON PLU=ON L8 AND L20
L22 22 SEA ABB=ON PLU=ON L21 OR L19
L23 2 SEA ABB=ON PLU=ON L21 AND L13
L24 11 SEA ABB=ON PLU=ON L23 OR L21
L25 4 SEA ABB=ON PLU=ON L8 AND (L9 OR L10)
L26 2 SEA ABB=ON PLU=ON L25 NOT L24
D SCAN TI

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:06:08 ON 11 SEP 2008

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STRUCTURE FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1
DICTIONARY FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

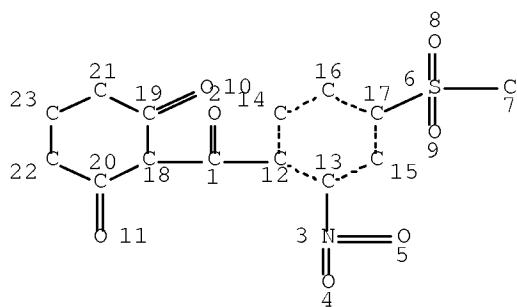
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que stat 12
L1 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L2 165 SEA FILE=REGISTRY FAM FUL L1

100.0% PROCESSED 197 ITERATIONS
SEARCH TIME: 00.00.01

165 ANSWERS

=> d que 114
L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON "PHOSPHORIC ACID"/CN
L10 76200 SEA FILE=CAPLUS ABB=ON PLU=ON L7
L11 77136 SEA FILE=CAPLUS ABB=ON PLU=ON HERBICIDE?/OBI
L12 135 SEA FILE=CAPLUS ABB=ON PLU=ON L10 AND L11
L13 24654 SEA FILE=CAPLUS ABB=ON PLU=ON ADJUVANT?/OBI
L14 9 SEA FILE=CAPLUS ABB=ON PLU=ON L12 AND L13

=> d rn cn 114

YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:n

=> d que 16; d rn cn 16 1-9

L3 (6) SEA FILE=REGISTRY ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN OR "PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)" /CN OR "PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR "PHOSPHATE (P4O123-)/CN)
L4 (2) SEA FILE=REGISTRY ABB=ON PLU=ON (PHOSPHONATE/CN OR "PHOSPHONATE (H2PO31-)/CN OR "PHOSPHONATE (HPO32-)/CN)
L5 (1) SEA FILE=REGISTRY ABB=ON PLU=ON (PHOSPHINATE/CN OR "PHOSPHINATE (H2PO21-)/CN)
L6 9 SEA FILE=REGISTRY ABB=ON PLU=ON (L3 OR L4 OR L5)

L6 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
RN 55620-44-5 REGISTRY

CN Phosphate (P4O123-) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Phosphate radical (P4O123-)

L6 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
RN 18274-25-4 REGISTRY

CN Phosphate-32P (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Phosphate (32PO4)

CN [32P]Orthophosphate

L6 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
RN 15477-76-6 REGISTRY

CN Phosphonic acid, ion(2-) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Hydrogen phosphite (HPO32-)

CN Monohydrogen phosphite

CN Phosphite (HPO32-)

CN Phosphonate

CN Phosphonate (HPO32-)

CN Phosphonate dianion

CN Phosphonate(2-)

L6 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
RN 15460-71-6 REGISTRY

CN Phosphonic acid, ion(1-) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dihydrogen phosphite

CN Phosphite ion (HPO31-)

CN Phosphonate (H2PO31-)

CN Phosphonate, hydrogen

L6 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
RN 15460-68-1 REGISTRY

CN Phosphinic acid, ion(1-) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Phosphinate (8CI)

OTHER NAMES:

CN Hypophosphite

CN Hypophosphite ion (H2PO2-)

CN Hypophosphite(1-)
 CN Hypophosphite(1-) ion
 CN Phosphinate (H₂PO₂1-)

L6 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 14265-44-2 REGISTRY
 CN Phosphate (CA INDEX NAME)

OTHER NAMES:

CN Orthophosphate
 CN Orthophosphate (PO₄3-)
 CN Orthophosphate(3-)
 CN Phosphate (PO₄3-)
 CN Phosphate anion(3-)
 CN Phosphate ion (PO₄3-)
 CN Phosphate ion(3-)
 CN Phosphate trianion
 CN Phosphate(3-)
 CN Phosphoric acid, ion(3-)

L6 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 14066-20-7 REGISTRY
 CN Phosphate, dihydrogen (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dihydrogen orthophosphate
 CN Dihydrogen phosphate
 CN Dihydrogen phosphate (H₂PO₄1-)
 CN Dihydrogen phosphate anion
 CN Dihydrogen phosphate anion (H₂PO₄-)
 CN Dihydrogen phosphate ion
 CN Dihydrogen phosphate ion (H₂PO₄-)
 CN Dihydrogen phosphate monoanion
 CN Dihydrogen phosphate(1-)
 CN Dihydrophosphate anion
 CN Hydrogen phosphate ion (H₂PO₄1-)
 CN Phosphate (H₂PO₄-)
 CN Phosphate (H₂PO₄1-)
 CN Phosphate ion (H₂PO₄1-)
 CN Phosphate monoanion
 CN Phosphoric acid ion (H₂PO₄1-)
 CN Phosphoric acid ion(1-)

L6 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 14066-19-4 REGISTRY
 CN Phosphate, hydrogen (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Biphosphate
 CN Hydrogen orthophosphate
 CN Hydrogen phosphate
 CN Hydrogen phosphate (HPO₄2-)
 CN Hydrogen phosphate anion (HPO₄2-)
 CN Hydrogen phosphate dianion
 CN Hydrogen phosphate ion (HPO₄2-)
 CN Hydrogen phosphate ion(2-)
 CN Hydrogen phosphate(2-)
 CN Monohydrogen phosphate
 CN Monohydrogen phosphate (HPO₄2-)
 CN Phosphate (HPO₄2-)
 CN Phosphate (PO₄H₂-)
 CN Phosphate dianion
 CN Phosphate dianion (HPO₄2-)

CN Phosphate ion (HPO42-)
CN Phosphate ion(2-)
CN Phosphate(2-)
CN Phosphoric acid ion(2-)

L6 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
RN 14000-31-8 REGISTRY

CN Diphosphate (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrophosphate (8CI)

OTHER NAMES:

CN Diphosphate (P2O74-)

CN Diphosphate(4-)

CN Diphosphoric acid, ion(4-)

CN Phosphate (P2O74-)

CN Pyrometaphosphate

CN Pyrophosphate (P2O74-)

CN Pyrophosphate tetraanion

CN Pyrophosphate(4-)

CN Pyrophosphate(4-) ion

=> d que 17

L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON "PHOSPHORIC ACID"/CN

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 7664-38-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Phosphoric acid (CA INDEX NAME)

OTHER NAMES:

CN 3M Etching Liquid

CN Amberphos 54

CN C 134

CN C 134 (acid)

CN C 434

CN C 434 (acid)

CN Conditioner 36

CN Decon 4512

CN E 338

CN Etchalite

CN EVITs

CN HQ 54

CN K-etchant

CN Kefo

CN Kerr Etchant

CN Mikro Klene DF

CN NSC 80804

CN Orthophosphoric acid

CN Panavia Etching Agent

CN Sonac

CN SPA 2

CN SPA 2 (catalyst)

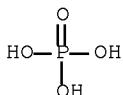
CN TG 434

CN Total Etch

CN Ultra-Etch Gel

CN Ultraetch

CN Uni-Etch
CN WC-Reiniger
CN Y 11A06
DR 959699-83-3, 1021417-41-3, 28602-75-7, 178560-73-1
MF H3 O4 P
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA,
CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN,
CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS*, SPECINFO,
SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



Structure in formula II

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

75962 REFERENCES IN FILE CA (1907 TO DATE)
10093 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
76200 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil caplus
FILE 'CAPLUS' ENTERED AT 14:07:05 ON 11 SEP 2008
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FILE COVERS 1907 - 11 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 10 Sep 2008 (20080910/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

```
=> d que nos 124
L1           STR
L2           165 SEA FILE=REGISTRY FAM FUL L1
L8           333 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2
L13          24654 SEA FILE=CAPLUS ABB=ON  PLU=ON  ADJUVANT?/OBI
L20          591961 SEA FILE=CAPLUS ABB=ON  PLU=ON  PHOSPHAT?/OBI
L21          11  SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND L20
L23          2   SEA FILE=CAPLUS ABB=ON  PLU=ON  L21 AND L13
L24          11  SEA FILE=CAPLUS ABB=ON  PLU=ON  L23 OR L21
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```
> => d que nos 126
L1           STR
L2           165 SEA FILE=REGISTRY FAM FUL L1
L3  (       6)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHATE/CN OR "PHOSPHATE
              (32PO4)"/CN OR "PHOSPHATE (H2PO4-)"//CN OR "PHOSPHATE (H2PO41-)"//
              /CN OR "PHOSPHATE (HPO42-)"//CN OR "PHOSPHATE (P2O74-)"//CN OR
              "PHOSPHATE (P4O123-)"//CN)
L4  (       2)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHONATE/CN OR "PHOSPHONATE
              (H2PO31-)"//CN OR "PHOSPHONATE (HPO32-)"//CN)
L5  (       1)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHINATE/CN OR "PHOSPHINATE
              (H2PO21-)"//CN)
L6           9  SEA FILE=REGISTRY ABB=ON  PLU=ON  (L3 OR L4 OR L5)
L7           1   SEA FILE=REGISTRY ABB=ON  PLU=ON  "PHOSPHORIC ACID"/CN
L8           333 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2
L9           125003 SEA FILE=CAPLUS ABB=ON  PLU=ON  L6 OR L7
L10          76200 SEA FILE=CAPLUS ABB=ON  PLU=ON  L7
L13          24654 SEA FILE=CAPLUS ABB=ON  PLU=ON  ADJUVANT?/OBI
L20          591961 SEA FILE=CAPLUS ABB=ON  PLU=ON  PHOSPHAT?/OBI
L21          11  SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND L20
L23          2   SEA FILE=CAPLUS ABB=ON  PLU=ON  L21 AND L13
L24          11  SEA FILE=CAPLUS ABB=ON  PLU=ON  L23 OR L21
L25          4   SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND (L9 OR L10)
L26          2   SEA FILE=CAPLUS ABB=ON  PLU=ON  L25 NOT L24
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=> d .ca hitstr 124 1-11

L24 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:944044 CAPLUS Full-text
DOCUMENT NUMBER: 149:247891
TITLE: Method for preparing particles comprising metal oxide
coating and particles with metal oxide coating
INVENTOR(S): Toledano, Ofer; Bar-Simantov, Haim; Bilman, Nissim;
Shapiro, Leora; Abu-Reziq, Raed; Sriadibhatla,
Srikanth; Sommer, William T.
PATENT ASSIGNEE(S): Sol-Gel Technologies Ltd., Israel
SOURCE: PCT Int. Appl., 51pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008093347	A2	20080807	WO 2008-IL141	20080203
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			US 2007-898700P	P 20070201
ED Entered STN: 08 Aug 2008				
AB The invention relates to a process for coating a solid, water-insol. particulate matter, with a metal oxide comprising: (a) contacting the solid, water-insol. particulate matter with an ionic additive and an aqueous medium to obtain a dispersion of said particulate matter having pos. charges on its surface; (b) subjecting the particulate matter to a coating procedure comprising precipitating a metal oxide salt onto the surface of the particulate matter to form a metal oxide layer thereon to thereby obtain particulate matter coated by a metal oxide coating layer; (c) repeating step (b) at least 4 more times; and (d) aging said coating layer. The invention further relates to particles comprising a particulate matter coated by a metal oxide layer, to a use of the particles for topical administration, and to a method for preventing, reducing, or eliminating pests at a locus, using the particles.				
IC ICM C03B				
CC 42-2 (Coatings, Inks, and Related Products)				
Section cross-reference(s): 38, 46, 62, 63				
IT Phosphates, uses				
RL: TEM (Technical or engineered material use); USES (Uses) (esters; method for preparing particles comprising metal oxide coating and particles with metal oxide coating)				
IT 115-29-7, Endosulfan 116-06-3, Aldicarb 122-34-9, Simazine 137-30-4, Ziram 330-55-2, Linuron 709-98-8, Propanil 834-12-8, Ametryn 1332-40-7, Copper-oxychloride 1563-66-2, Carbofuran 1582-09-8, Trifluralin 1897-45-6, Chlorothalonil 1912-24-9, Atrazine 2921-88-2, Chlорpyrifos 7287-19-6, Prometryn 7704-34-9, Sulphur, biological studies 8018-01-7, Mancozeb 10605-21-7, Carbendazim 12427-38-2, Maneb 19937-59-8, Metoxuron 21087-64-9, Metribuzin 22224-92-6, Fenamiphos 23103-98-2, Pirimicarb 23564-05-8, Thiophanate-methyl 25057-89-0, Bentazone 26225-79-6, Ethofumesate 34014-18-1, Tebuthiuron 34123-59-6, Isoproturon 40487-42-1, Pendimethalin 41394-05-2, Metamitron 42874-03-3, Oxyfluorfen 51707-55-2, Thidiazuron 52315-07-8, Cypermethrin 52918-63-5, Deltamethrin 55283-68-6, Ethalfuralin 55335-06-3, Triclopyr 57966-95-7, Cymoxanil 66063-05-6, Pencycuron 66230-04-4, Esfenvalerate 66332-96-5, Flutolanil 67129-08-2, Metazachlor 67375-30-8, Alphacypermethrin 68359-37-5, Betacyfluthrin 71422-67-8, Chlorfluazuron 71751-41-2, Abamectin 72178-02-0, Fomesafen 74070-46-5, Aclonifen 74222-97-2, Sulfometuron-methyl 74223-64-6, Metsulfuron-methyl 76578-14-8, Quizalofop-ethyl 76674-21-0, Flutriafol 77501-63-4, Lactofen 79277-27-3, Thifensulfuron-methyl 79622-59-6, Fluazinam 81334-34-1, Imazapyr 81335-37-7, Imazaquin 81335-77-5, Imazethapyr 82097-50-5, Triasulfuron 82657-04-3, Bifenthrin 83121-18-0, Teflubenzuron				

84087-01-4, Quinclorac 85509-19-9, Flusilazole 87820-88-0, Tralkoxydim
 90717-03-6, Quinmerac 90982-32-4, Chlorimuron-ethyl 94361-06-5,
 Cyproconazole 98967-40-9, Flumetsulam 99105-77-8, Sulcotrione
 100646-51-3 100784-20-1, Halosulfuron-methyl 103055-07-8, Lufenuron
 104098-48-8, Imazapic 104206-82-8, Mesotrione 107534-96-3,
 Tebuconazole 110488-70-5, Dimethomorph 111988-49-9, Thiacloprid
 114311-32-9, Imazamox 116714-46-6, Novaluron 120068-37-3, Fipronil
 120116-88-3, Cyazofamid 122008-85-9, Cyhalofop-butyl 122453-73-0,
 Chlorfenapyr 122836-35-5, Sulfentrazone 122931-48-0, Rimsulfuron
 129909-90-6, Amicarbazone 131860-33-8, Azoxystrobin 133855-98-8,
 Epoxiconazole 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid
 141112-29-0, Isoxaflutole 141517-21-7, Trifloxystrobin 141776-32-1,
 Sulfosulfuron 142459-58-3, Flufenacet 143390-89-0, Kresoxim-methyl
 145701-23-1, Florasulam 153719-23-4, Thiamethoxam 161050-58-4,
 Methoxyfenozide 168316-95-8, Spinosad 173584-44-6, Indoxacarb
 175013-18-0, Pyraclostrobin

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(pesticide; method for preparing particles comprising metal oxide coating and particles with metal oxide coating)

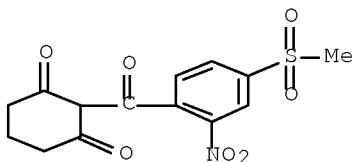
IT 104206-82-8, Mesotrione

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(pesticide; method for preparing particles comprising metal oxide coating and particles with metal oxide coating)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



L24 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2008:770596 CAPLUS Full-text
 DOCUMENT NUMBER: 149:71930
 TITLE: Pesticidal aggregates comprising a polymer and an amphiphilic surfactant
 INVENTOR(S): Kabanov, Alexander V.; Karas, Michael; Bronitch, Tatiana K.; Dexter, Robin
 PATENT ASSIGNEE(S): Innovaform Technologies, LLC, USA
 SOURCE: PCT Int. Appl., 75pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008076807	A2	20080626	WO 2007-US87398	20071213
WO 2008076807	A3	20080807		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2006-874465P P 20061213

ED Entered STN: 26 Jun 2008

AB This invention relates to a water-insol. pesticidal aggregate produced from a mixture comprising: (a) a polymer having at least three similarly charged electrostatic moieties; (b) an amphiphilic surfactant having at least one electrostatically charged moiety of opposite charge to the polymer; and (c) a pesticide.

CC 5-4 (Agrochemical Bioregulators)

IT 77-06-5, Gibberellic acid 85-00-7, Diquat 94-75-7, 2,4-D, biological studies 1071-83-6, Glyphosate 1689-84-5, Bromoxynil 1702-17-6, Clopyralid 1897-45-6, Chlorothalonil 1912-24-9, Atrazine 1918-00-9, Dicamba 4685-14-7, Paraquat 15972-60-8, Alachlor 19044-88-3, Oryzalin 23135-22-0, Oxamyl 34256-82-1, Acetochlor 40487-42-1, Pendimethalin. 51218-45-2, Metolachlor 51276-47-2, Glufosinate 72178-02-0, Fomesafen 76674-21-0, Flutriafol 81335-77-5, Imazethapyr 82657-04-3, Bifenthrin 94051-08-8, Quinalof op-P 103055-07-8, Lufenuron 104206-82-8, Mesotrione 107534-96-3, Tebuconazole 111991-09-4, Nicosulfuron 116714-46-6, Novaluron 122836-35-5, Sulfentrazone 126833-17-8, Fenhexamid 131860-33-8, Azoxystrobin 147150-35-4, Cloransulam-methyl

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (pesticidal aggregates containing)

IT 57-09-0, Hexadecyltrimethylammonium bromide 88-12-0D, copolymers 107-25-5D, Methyl vinyl ether, copolymers with maleic anhydride esters 108-31-6D, Maleic anhydride, polymer with olefins 112-00-5, Arquad 12-37W 112-02-7, Arquad 16-50 112-03-8, Arquad 18-50 151-21-3, Sodium dodecyl sulfate, uses 506-59-2D, Dimethylammonium chloride, cocoalkyl derivative 593-81-7D, Trimethylammonium chloride, cocoalkyl derivative

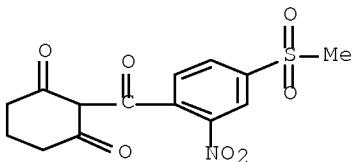
1119-97-7, Tetradecyltrimethylammonium bromide 6484-52-2D, Ammonium nitrate, cocoalkyl derivative, ethoxylated 8061-51-6, REAX 88B 9003-01-4, Polyacrylic acid 12125-02-9D, Ammonium chloride, cocoalkyl derivative, ethoxylated 14806-72-5D, tallowalkyl derivative 18254-13-2D, Tristyrylphenol, phosphate ester 25085-34-1, Styrene-acrylic acid polymer 25085-35-2, Carbopol aqua 30 25155-30-0, Sodium dodecyl benzene sulfonate 26062-79-3 26590-05-6, Polyquaternium 7 28880-55-9, Ethoquad O/12 PG 30581-59-0D, quaternized 34229-21-5, Geropon EGPM 50851-57-5D, Polystyrenesulfonic acid, polymer 53633-54-8, Polyquaternium 11 139776-68-4 288306-26-3 476312-12-6, Carbopol 71G 887137-42-0, Ethacryl G 1033619-66-7D, tallowalkyl derivative, hydrogenated 1033727-61-5, Atlox Metasperse 550S 1033745-28-6, Ethacryl M 1033745-32-2, Ethacryl P 1033745-35-5, Ethacryl HF 1033746-68-7, Akzo PPEM 9376

RL: MOA (Modifier or additive use); USES (Uses)
 (pesticidal aggregates containing)

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (pesticidal aggregates containing)

RN 104206-82-8 CAPLUS
 CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX
 NAME)



L24 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2008:529932 CAPLUS Full-text
 DOCUMENT NUMBER: 148:511107
 TITLE: Cropping systems using transgenic plants and herbicide treatments for managing weeds
 INVENTOR(S): Arnevik, Cindy L.; Brinker, Ronald J.; Elmore, Greg; Graham, James C.; Sammons, Robert D.; Starke, Michelle; Voth, Richard D.
 PATENT ASSIGNEE(S): Monsanto Technology LLC, USA
 SOURCE: PCT Int. Appl., 86pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008051633	A2	20080502	WO 2007-US70510	20070606
WO 2008051633	A3	20080807		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
PRIORITY APPLN. INFO.:			US 2006-862907P	P 20061025
			US 2007-758660	A 20070605

ED Entered STN: 02 May 2008
 AB Cropping systems for managing weeds comprise, in one embodiment, sowing transgenic plants that display tolerance to an auxin-like herbicide such as dicamba and applying at least a first herbicide treatment to the growing environment to control weed growth. The system may further comprise applying ≥2-5 of said herbicide treatments. Methods for minimizing the development of herbicide-resistant weeds are also provided.
 CC 5-3 (Agrochemical Bioregulators)
 Section cross-reference(s): 3, 7
 IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); PRPH (Prophetic); BIOL (Biological study);
USES (Uses)

(Callisto; cropping systems using transgenic plants and herbicide treatments for weed control and methods for minimizing herbicide-resistant weed development)

IT 9029-72-5 9068-73-9, 5-Enolpyruvylshikimate-3-phosphate synthase 111069-93-3, Phosphinothricin acetyltransferase 143375-68-2, Glyphosate oxidoreductase 189326-41-8, Dicamba monooxygenase 424789-79-7, Glyphosate-N-acetyl transferase

RL: BSU (Biological study, unclassified); BIOL (Biological study) (cropping systems using transgenic plants and herbicide treatments for weed control and methods for minimizing herbicide-resistant weed development)

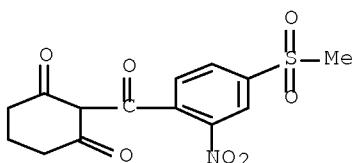
IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); PRPH (Prophetic); BIOL (Biological study);
USES (Uses)

(Callisto; cropping systems using transgenic plants and herbicide treatments for weed control and methods for minimizing herbicide-resistant weed development)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



L24 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:283286 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 146:310978
TITLE: Microemulsion formulation for agrochemicals and pharmaceuticals
INVENTOR(S): Rowley, Keith; Trimmer, Mark; Richard, Thomas; Leung, Claire
PATENT ASSIGNEE(S): Nutra-Park, Inc., USA
SOURCE: PCT Int. Appl., 51pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007030649	A2	20070315	WO 2006-US34907	20060907
WO 2007030649	A3	20070816		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ,				

UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

US 20070078057 A1 20070405 US 2006-517004 20060907
 PRIORITY APPLN. INFO.: US 2005-714597P P 20050907
 US 2005-714598P P 20050907

ED Entered STN: 16 Mar 2007

AB The invention provides a storage-stable microemulsion formulation comprising a metal chelate complex, an anionic surfactant, unmodified or modified lecithin, and, optionally, an alc. The microemulsion is suitable for agrochems. and pharmaceuticals.

CC 5-6 (Agrochemical Bioregulators)

Section cross-reference(s): 63

IT 108-88-3, Toluene, biological studies 1071-83-6, Glyphosate 1330-20-7,
 Xylene, biological studies 104206-82-8, Mesotrione
 117428-22-5, Picoxystrobin 120068-37-3, Fipronil 131860-33-8,
 Azoxyystrobin 138261-41-3, Imidacloprid 141517-21-7, Trifloxyystrobin
 143390-89-0, Kresoxim-methyl 500008-45-7, Rynaxypyr

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (microemulsion formulation for agrochems. and pharmaceuticals)

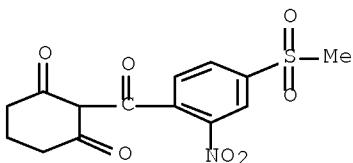
IT 60-00-4, EDTA, uses 64-02-8, EDTA tetrasodium 64-17-5, Ethanol, uses
 67-43-6, DTPA 67-56-1, Methanol, uses 67-63-0, 2-Propanol, uses
 71-23-8, Propanol, uses 71-36-3, Butanol, uses 75-65-0, tert-Butyl
 alcohol, uses 77-92-9, Citric acid, uses 111-27-3, Hexanol, uses
 111-87-5, Octanol, uses 139-13-9 139-33-3 150-39-0, HEDTA
 557-34-6, Zinc acetate 1834-30-6, Iron(III) acetate 7447-39-4,
 Copper(II) chloride, uses 7646-85-7, Zinc chloride, uses 7705-08-0,
 Iron(III) chloride, uses 7720-78-7, Iron(II) sulfate 7773-01-5,
 Manganese chloride 7779-90-0, Zinc phosphate 10043-01-3,
 Aluminum sulfate 10043-52-4, Calcium chloride, uses 724446-93-9,
 Precept 8160 724446-95-1, Precept 8140
 RL: MOA (Modifier or additive use); USES (Uses)
 (microemulsion formulation for agrochems. and pharmaceuticals)

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (microemulsion formulation for agrochems. and pharmaceuticals)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX
 NAME)



L24 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:89713 CAPLUS Full-text

DOCUMENT NUMBER: 146:157661

TITLE: Granular turf-safe mesotrione compositions

INVENTOR(S): Baker, Robert D.

PATENT ASSIGNEE(S): Oms Investments, Inc., USA
 SOURCE: PCT Int. Appl., 52pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007011847	A2	20070125	WO 2006-US27620	20060718
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20070021305	A1	20070125	US 2006-487774	20060717
AU 2006270098	A1	20070125	AU 2006-270098	20060718
CA 2615819	A1	20070125	CA 2006-2615819	20060718
EP 1909570	A2	20080416	EP 2006-787516	20060718
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
MX 200800772	A	20080306	MX 2008-772	20080116
PRIORITY APPLN. INFO.:			US 2005-700637P	P 20050719
			US 2006-487774	A 20060717
			WO 2006-US27620	W 20060718

ED Entered STN: 26 Jan 2007

AB Granular herbicidal compns. comprising mesotrione impregnated into or coated on the surface of a granular substrate material, such as a fertilizer granule and/or a solid inert carrier, control weeds in turfgrasses without causing damage to the grass. Thus, 0.61% Callisto (a 40% mesotrione formulation) was mixed with granular fertilizer in a rotating drum until the mesotrione was uniformly coated on and absorbed into the fertilizer granules. When the composition was applied at 0.33 lb/acre, with evaluation after 14 and 26 days, results showed that the composition is safe for the turfgrasses tested (perennial ryegrass, fine fescue, and tall fescue) and effective in causing initial injury and long-term control of dandelion, white clover, and crabgrass.

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 19

IT Amino acids, biological studies

Aminoplasts

Phosphates, biological studies

Trace element nutrients

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(herbicidal compns. comprising mesotrione impregnated into or coated on granular fertilizers for controlling weeds in turfgrasses)

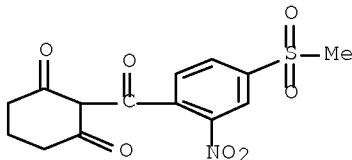
IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL

(Biological study); USES (Uses)

(Callisto; herbicidal compns. comprising mesotrione impregnated into or coated on granular substrate for controlling weeds in turfgrasses)

IT 104206-82-8, Mesotrione
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (Callisto; herbicidal compns. comprising mesotrione impregnated into or coated on granular substrate for controlling weeds in turfgrasses)
 RN 104206-82-8 CAPLUS
 CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



L24 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:964970 CAPLUS Full-text
 DOCUMENT NUMBER: 141:407236
 TITLE: Treatment of plants and plant propagation materials with an antioxidant and pesticide to improve plant health and/or yield
 INVENTOR(S): Asrar, Jawed; Ding, Yiwei; Bourque, June E.; Sanders, Ernest F.
 PATENT ASSIGNEE(S): Monsanto Technology, LLC, USA
 SOURCE: PCT Int. Appl., 79 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004095926	A2	20041111	WO 2004-US10720	20040407
WO 2004095926	A3	20050127		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20040259732	A1	20041223	US 2004-832578	20040427
US 20080125319	A1	20080529	US 2008-11424	20080125
PRIORITY APPLN. INFO.:			US 2003-466104P	P 20030428
			US 2004-832578	A1 20040427

ED Entered STN: 12 Nov 2004

AB Methods and compns. are described for the treatment of plants and plant propagation materials with an antioxidant alone or in combination with a pesticide for improved germination rates. Plants that grow from treated plant

propagation materials, or plants that are treated directly, show improved stand d. or vigor, and/or improved yields.

IC ICM A01N033-12
 ICS A01N031-16; A01N031-08; A01N037-44; A01C001-06; A01N043-10

CC 5-3 (Agrochemical Bioregulators)

IT Amines, biological studies

Glycoproteins

Lecithins

Lysophosphatidylcholines

Lysophosphatidylethanolamines

Phosphatidylcholines, biological studies

Phosphatidylethanolamines, biological studies

Phosphatidylserines

Phosphites

Proanthocyanidins

Proteoglycans, biological studies

Tocopherols

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (mixture with pesticide; seed and plant treatment composition to improve germination, plant health and yield)

IT 27314-13-2D, Norflurazon, mixture with antioxidant 27676-62-6D,
 1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-
 2,4,6(1H,3H,5H)-trione, mixture with pesticide 28249-77-6D, Thiobencarb,
 mixture with antioxidant 29091-05-2D, Dinitramine, mixture with antioxidant
 29091-21-2D, PrOdiamine, mixture with antioxidant 30560-19-1D, Acephate,
 mixture with antioxidant 33629-47-9D, Butralin, mixture with antioxidant
 33693-04-8D, Terbumeton, mixture with antioxidant 34014-18-1D,
 Tebuthiuron, mixture with antioxidant 34123-59-6D, Isoproturon, mixture with
 antioxidant 34205-21-5D, Dimefuron, mixture with antioxidant
 34256-82-1D, Acetochlor, mixture with antioxidant 34622-58-7D, Orbencarb,
 mixture with antioxidant 35256-85-0D, Tebutam, mixture with antioxidant
 35554-44-0D, Imazalil, mixture with antioxidant 35597-43-4D, Bilanafos,
 mixture with antioxidant 36335-67-8D, Butamifos, mixture with antioxidant
 36756-79-3D, Tiocarbazil, mixture with antioxidant 37294-28-3D,
 Xyloglucan, mixture with pesticide 38146-05-3D, mixture with pesticide
 38953-85-4D, Isovitexin, mixture with pesticide 39515-40-7D,
 (Cyphenothrin; mixture with antioxidant 39515-41-8D, (Fenpropothrin,
 mixture with antioxidant 39807-15-3D, Oxadiargyl, mixture with antioxidant
 39985-63-2D, MK 616, mixture with antioxidant 40487-42-1D, Pendimethalin,
 mixture with antioxidant 41394-05-2D, Metamitron, mixture with antioxidant
 42576-02-3D, ,Bifenox, mixture with antioxidant 42609-52-9D, Daimuron,
 mixture with antioxidant 42609-73-4D, Methyldymron, mixture with antioxidant
 42874-03-3D, Oxyfluorfen, mixture with antioxidant 43222-48-6D,
 Difenoquat methylsulfate, mixture with antioxidant 50563-36-5D,
 DImethachlor, mixture with antioxidant 50594-66-6D, Acifluorfen, mixture
 with antioxidant 51218-45-2D, MEtolachlor, mixture with antioxidant
 51218-49-6D, Pretilachlor, mixture with antioxidant 51235-04-2D,
 Hexazinone, mixture with antioxidant 51338-27-3D, Diclof opmethyl, mixture
 with antioxidant 51630-58-1D, Fenvalerate, mixture with antioxidant
 52315-07-8D, Cypermethrin, mixture with antioxidant 52570-16-8D,
 Naproanilide, mixture with antioxidant 52645-53-1D, Permethrin, mixture with
 antioxidant 52888-80-9D, PRosulfocarb, mixture with antioxidant
 53780-34-0D, MeFluidide, mixture with antioxidant 54406-48-3D,
 (Empenthrin, mixture with antioxidant 55179-31-2D, Bitertanol, mixture with
 antioxidant 55219-65-3D, TRiadimenol, mixture with antioxidant
 55283-68-6D, Ethalfluralin, mixture with antioxidant 55290-64-7D,
 Dimethipin, mixture with antioxidant 55335-06-3D, Triclopyr, mixture with
 antioxidant 55512-33-9D, Pyridate, mixture with antioxidant 55634-91-8D,
 Alloxydim, mixture with antioxidant 55861-78-4D, Isouron, mixture with
 antioxidant 57646-30-7D, Furalaxyd, mixture with antioxidant

57837-19-1D, Metalaxyl, mixture with antioxidant 57966-95-7D, Cymoxanil, mixture with antioxidant 58011-68-0D, Pyrazolynate, mixture with antioxidant 58769-20-3D, Kadethrin, mixture with antioxidant 58810-48-3D, Ofurace, mixture with antioxidant 59669-26-0D, Thiodicarb, mixture with antioxidant 59682-52-9D, Fosamine, mixture with antioxidant 59756-60-4D, ,Fluridone, mixture with antioxidant 60207-90-1D, Propiconazole, mixture with antioxidant 60207-93-4D, ETaconazole, mixture with antioxidant 61213-25-0D, mixture with antioxidant 61432-55-1D, Dimepiperate, mixture with antioxidant 63843-89-0D, Tinuvin 144, mixture with pesticide 63935-38-6D, (Cycloprothrin, mixture with antioxidant 64249-01-0D, Anilofos, mixture with antioxidant 64902-72-3D, Chlorsulfuron, mixture with antioxidant 66063-05-6D, Pencycuron, mixture with antioxidant 66230-04-4D, (Esfenvalerate, mixture with antioxidant 66246-88-6D, Penconazole, mixture with antioxidant 67129-08-2D, Metazachlor, mixture with antioxidant 67306-00-7D, FEnpropidine, mixture with antioxidant 67375-30-8D, (Alphacypermethrin, mixture with antioxidant 67564-91-4D, FEnpropimorph, mixture with antioxidant 67747-09-5D, Prochloraz, mixture with antioxidant 68049-83-2D, Azafenidin, mixture with antioxidant 68085-85-8D, (Cyhalothrin, mixture with antioxidant 68359-37-5D, Cyfluthrin, mixture with antioxidant 68505-69-1D, Benfuresate, mixture with antioxidant 68694-11-1D, Triflumizole, mixture with antioxidant 69377-81-7D, Fluroxypyr, mixture with antioxidant 69770-45-2D, (Flumethrin, mixture with antioxidant 69806-34-4D, Haloxyfop, mixture with antioxidant 69806-50-4D, Fluazifopbutyl, mixture with antioxidant 70248-65-6D, Methionine sulfoxide reductase, mixture with pesticide 70630-17-0D, R-Metalaxyl, mixture with antioxidant 71239-70-8D, Cellotetraosylsitolosterol, mixture with pesticide 71283-80-2D, mixture with antioxidant 71561-11-0D, Pyrazoxyfen, mixture with antioxidant 71626-11-4D, Benalaxyl, mixture with antioxidant 71697-59-1D, (Theta cypermethrin, mixture with antioxidant 72178-02-0D, ,Fomesafen, mixture with antioxidant 72459-58-6D, Triazoxide, mixture with antioxidant 72963-72-5D, Imiprothrin, mixture with antioxidant 73250-68-7D, Mefenacet, mixture with antioxidant 73989-17-0D, Avermectin, mixture with antioxidant 74051-80-2D, Sethoxydim, mixture with antioxidant 74070-46-5D, Aclonifen, mixture with antioxidant 74223-64-6D, Metsulfuronmethyl, mixture with antioxidant 74712-19-9D, Bromobutide, mixture with antioxidant 74738-17-3D, Fenpiclonil, mixture with antioxidant 76578-12-6D, Quizalofop, mixture with antioxidant 76674-21-0D, ,Flutriafol, mixture with antioxidant 77182-82-2D, Glufosinateammonium, mixture with antioxidant 77501-63-4D, Lactofen, mixture with antioxidant 77501-90-7D, Fluoroglycofenethyl, mixture with antioxidant 77732-09-3D, Oxadixyl, mixture with antioxidant 79241-46-6D, mixture with antioxidant 79277-27-3D, Thifensulfuronmethyl, mixture with antioxidant 79540-50-4D, Etobenzanid, mixture with antioxidant 79983-71-4D, Hexaconazole, mixture with antioxidant 81334-34-1D, Imazapyr, mixture with antioxidant 81335-37-7D, Imazaquin, mixture with antioxidant 81335-77-5D, Imazethapyr, mixture with antioxidant 81405-85-8D, Imazamethabenzmethyl, mixture with antioxidant 81412-43-3D, Tridemorph, mixture with antioxidant 81777-89-1D, Clomazone, mixture with antioxidant 82097-50-5D, Triasulfuron, mixture with antioxidant 82558-50-7D, Isoxaben, mixture with antioxidant 82657-04-3D, Bifenthrin, mixture with antioxidant 82692-44-2D, ,Benzofenap, mixture with antioxidant 83055-99-6D, Bensulfuronmethyl, mixture with antioxidant 83164-33-4D, Diflufenican, mixture with antioxidant 83657-24-3D, Diniconazole, mixture with antioxidant 84087-01-4D, Quinclorac, mixture with antioxidant 84496-56-0D, Clomeprop, mixture with antioxidant 85509-19-9D, Flusilazole, mixture with antioxidant 85785-20-2D, Esprocarb, mixture with antioxidant 86209-51-0D, Primisulfuronmethyl, mixture with antioxidant 86763-47-5D, Propisochlor, mixture with antioxidant 87392-12-9D, S-Metolachlor, mixture with antioxidant 87546-18-7D, Flumicloracpencyl, mixture with antioxidant 87674-68-8D, Dimethenamid, mixture with antioxidant 87818-31-3D,

Cinmethylin, mixture with antioxidant 87820-88-0D, Tralkoxydim, mixture with antioxidant 87833-54-3D, mixture with pesticide 88283-41-4D, ,Pyrifenoxy, mixture with antioxidant 88671-89-0D, Myclobutanil, mixture with antioxidant 88678-67-5D, Pyributicarb, mixture with antioxidant 89624-19-1D, Irganoxy, mixture with pesticide 90134-59-1D, Flamprop-M, mixture with antioxidant 90524-93-9D, mixture with pesticide 90717-03-6D, Quinmerac, mixture with antioxidant 90982-32-4D, Chlorimuronethyl, mixture with antioxidant 93697-74-6D, Pyrazosulfuronethyl, mixture with antioxidant 94051-08-8D, Quizalof op-P, mixture with antioxidant 94125-34-5D, ,Prosulfuron, mixture with antioxidant 94361-06-5D, Cyproconazole, mixture with antioxidant 94593-91-6D, Cinosulfuron, mixture with antioxidant 96491-05-3D, Thenylchlor, mixture with antioxidant 96525-23-4D, Flurtamone, mixture with antioxidant 97780-06-8 97886-45-8D, Dithiopyr, mixture with antioxidant 98967-40-9D, Flumetsulam, mixture with antioxidant 99105-77-8D, Sulcotrione, mixture with antioxidant 99129-21-2D, Clethodim, mixture with antioxidant 99485-76-4D, Cumyluron, mixture with antioxidant 100784-20-1D, Halosulfuronmethyl, mixture with antioxidant 101007-06-1D, Acrinathrin, mixture with antioxidant 101018-70-6D, ,2-Methyl-4-(dimethylaminomethyl)-5-hydroxybenzimidazole, mixture with pesticide 101200-48-0D, Tribenuronmethyl, mixture with antioxidant 101205-02-1D, Cycloxydim, mixture with antioxidant 103361-09-7D, Flumioxazin, mixture with antioxidant 104040-78-0D, Flazasulfuron, mixture with antioxidant 104098-48-8D, IMazapic, mixture with antioxidant 104206-82-8D, MEsotriione, mixture with antioxidant 104459-82-7D, AKH-7088, mixture with antioxidant 105512-06-9D, Clodinafoppropargyl, mixture with antioxidant 107534-96-3D, Tebuconazole, mixture with antioxidant 108173-90-6D, Guazatine, mixture with antioxidant 109293-97-2D, Diflufenzoxypr, mixture with antioxidant 110488-70-5D, Dimethomorph, mixture with antioxidant 110956-75-7D, Pentoxyzone, mixture with antioxidant 111479-05-1D, PRopaqizafop, mixture with antioxidant 111578-32-6D, Metobenzuron, mixture with antioxidant 112143-82-5D, Triazamate, mixture with antioxidant 112226-61-6D, mixture with antioxidant 112281-77-3D, Tetraconazole, mixture with antioxidant 113614-08-7D, Beflubutamid, mixture with antioxidant 114311-32-9D, Imazamox, mixture with antioxidant 114369-43-6D, Fenbuconazole, mixture with antioxidant 116255-48-2D, Bromuconazole, mixture with antioxidant 117337-19-6D, Fluthiacetmethyl, mixture with antioxidant 117428-22-5D, ZEN90160, mixture with antioxidant 117718-60-2D, Thiazopyr, mixture with antioxidant 118134-30-8D, SPiroxamine, mixture with antioxidant 118712-89-3D, Transfluthrin, mixture with antioxidant 119168-77-3D, Tebufenpyrad, mixture with antioxidant 119446-68-3D, Difenoconazole, mixture with antioxidant 120068-37-3D, Fipronil, mixture with antioxidant 120162-55-2D, Azimsulfuron, mixture with antioxidant 120923-37-7D, Amidosulfuron, mixture with antioxidant 121552-61-2D, Cyprodinil, mixture with antioxidant 122008-85-9D, Cyhalof opbutyl, mixture with antioxidant 122548-33-8D, Imazosulfuron, mixture with antioxidant 122931-48-0D, Rimsulfuron, mixture with antioxidant 123343-16-8D, Pyrithiobac sodium, mixture with antioxidant 124495-18-7D, Quinoxifen, mixture with antioxidant 125116-23-6D, Metconazole, mixture with antioxidant 125306-83-4D, Cafenstrole, mixture with antioxidant 125401-92-5D, Bispyribac sodium, mixture with antioxidant 126535-15-7D, Triflusulfuronmethyl, mixture with antioxidant 126801-58-9D, Ethoxysulfuron, mixture with antioxidant 128639-02-1D, Carfentrazoneethyl, mixture with antioxidant 129630-19-9D, Pyraflufen-ethyl, mixture with antioxidant 129909-90-6D, Amicarbazone, mixture with antioxidant 131086-42-5D, ,HC-252, mixture with antioxidant 131341-86-1D, Fludioxonil, mixture with antioxidant 131475-57-5D, Triaziflam, mixture with antioxidant 131807-57-3D, ,Famoxadone, mixture with antioxidant 131860-33-8D, Azoxystrobin, mixture with antioxidant 131983-72-7D, Triticonazole, mixture with antioxidant 133220-30-1D, Indanofan, mixture with antioxidant 134605-64-4D, Butafenacil, mixture with antioxidant 135158-54-2, Acibenzolar-S-methyl 135410-20-7D,

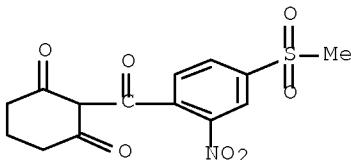
Acetamiprid, mixture with antioxidant 136426-54-5D, Fluquinconazole, mixture with antioxidant 136849-15-5D, Cyclosulfamuron, mixture with antioxidant 137641-05-5D, Picolinafen, mixture with antioxidant 138164-12-2D, Butroxydim, mixture with antioxidant 139001-49-3D, BAS 625 H, mixture with antioxidant 139528-85-1D, Metosulam, mixture with antioxidant 141112-29-0D, Isoxaflutole, mixture with antioxidant 141776-32-1D, Sulfosulfuron, mixture with antioxidant 142459-58-3D, Flufenacet, mixture with antioxidant 142891-20-1D, Cinidonethyl, mixture with antioxidant 143390-89-0D, Kresoximmethyl, mixture with antioxidant 144550-36-7D, Iodosulfuronmethylsodium, mixture with antioxidant 144651-06-9D, Oxasulfuron, mixture with antioxidant 144740-54-5D, Flupyrifluronmethylsodium, mixture with antioxidant 145701-21-9D, Diclosulam, mixture with antioxidant 145701-23-1D, Florasulam, mixture with antioxidant 147150-35-4D, Cloransulammethyl, mixture with antioxidant 147411-69-6D, Pyriminobacmethyl, mixture with antioxidant

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (seed and plant treatment composition to improve germination, plant health and yield)

IT 104206-82-8D, MESOTRIONE, mixture with antioxidant
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (seed and plant treatment composition to improve germination, plant health and yield)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



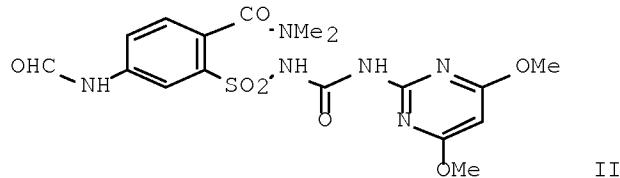
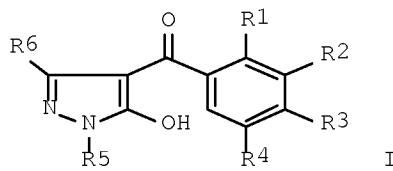
L24 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:41187 CAPLUS Full-text
 DOCUMENT NUMBER: 140:89300
 TITLE: Synergistic herbicidal mixtures comprising benzoyl derivatives and pyrimidine derivatives
 INVENTOR(S): O'Neal, William B.; Kibler, Elmar; Witschel, Matthias; Vantieghem, Herve R.
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 68 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004004463	A1	20040115	WO 2003-EP7321	20030708
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				

PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2490499 A1 20040115 CA 2003-2490499 20030708
 AU 2003281252 A1 20040123 AU 2003-281252 20030708
 EP 1521529 A1 20050413 EP 2003-740437 20030708
 EP 1521529 B1 20070328
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 BR 2003012497 A 20050510 BR 2003-12497 20030708
 CN 1668199 A 20050914 CN 2003-816286 20030708
 JP 2005532382 T 20051027 JP 2004-518742 20030708
 AT 357851 T 20070415 AT 2003-740437 20030708
 ES 2285144 T3 20071116 ES 2003-740437 20030708
 MX 2005PA00049 A 20050408 MX 2005-PA49 20050103
 US 20060166828 A1 20060727 US 2005-519978 20050103
 PRIORITY APPLN. INFO.: US 2002-393740P P 20020708
 WO 2003-EP7321 W 20030708

OTHER SOURCE(S): MARPAT 140:89300

ED Entered STN: 18 Jan 2004
 GI



AB A synergistic herbicidal mixture comprises: (a) at least one 3-heterocyclyl-substituted benzoyl derivative I (Markush included); and (b) a synergistically effective amount of the compound II, or one of its environmentally compatible salts; and, if desired, (c) at least one further herbicidal compound; and, if desired, (d) at least a safener.

IC ICM A01N047-36
 ICS A01N043-80; A01N043-88; A01N043-70

CC 5-3 (Agrochemical Bioregulators)

IT Herbicides
 (5-enolpyruvyl shikimate 3-phosphate synthase inhibitors; in synergistic herbicidal mixts. comprising benzoyl derivs. and pyrimidine derivs.)

IT 88678-67-5, Pyributicarb 90717-03-6, Quinmerac 90982-32-4,
 Chlorimuron-ethyl 93697-74-6, Pyrazosulfuron-ethyl 94125-34-5,

Prosulfuron 94593-91-6, Cinosulfuron 95480-33-4, Cloproxydim 96491-05-3, Thenylchlor 96525-23-4, Flurtamone 97780-06-8 97886-45-8, Dithiopyr 98967-40-9, Flumetsulam 99105-77-8, Sulcotrione 99129-21-2, Clethodim 99485-76-4, Cumyluron 99662-11-0, Nipyraclofen 100646-51-3 100784-20-1, Halosulfuron-methyl 101200-48-0, Tribenuron-methyl 101205-02-1, Cycloxydim 103112-36-3, Fenchlorazole 103361-09-7, Flumioxazin 104040-78-0, Flazasulfuron 104098-48-8, Imazapic 104206-82-8, Mesotriione 105512-06-9, Clodinafop-propargyl 109293-97-2, Diflufenzopyr 111479-05-1, Propaquizafop 111578-32-6, Metobenzuron 111991-09-4, Nicosulfuron 114311-32-9, Imazamox 117337-19-6, Fluthiacet-methyl 117718-60-2, Thiazopyr 119126-15-7, Flupoxam 119738-06-6 120162-55-2, Azimsulfuron 120890-70-2, Flupropacil 120923-37-7, Amidosulfuron 122008-85-9, Cyhalof op-butyl 122548-33-8, Imazosulfuron 122836-35-5, Sulfentrazone 122931-48-0, Rimsulfuron 123249-43-4, Thidiazimin 123342-93-8, Pyrithiobac 123343-16-8, Pyrithiobac-sodium 125306-83-4, Cafenstrole 125401-92-5, Bispuryribac-sodium 126535-15-7, Triflusulfuron-methyl 126801-58-9, Ethoxysulfuron 128639-02-1, Carfentrazone-ethyl 129630-19-9, ET-751 131475-57-5, Triaziflam 134605-64-4, Butafenacil 135591-00-3, Mefenpyr 136191-64-5, KIH-6127 136849-15-5, Cyclosulfamuron 138164-12-2, Butroxydim 139001-49-3, Clefoxydim 139528-85-1, Metosulam 141112-06-3, Isoxachlortole 141112-29-0, Isoxaflutole 141776-32-1, Sulfosulfuron 142459-58-3, Fluthiamide 142469-14-5 142891-20-1, Cinidon-ethyl 145026-88-6, Flucarbazone 145701-23-1, Florasulam 149979-41-9, Tepraloxydim 153197-14-9 163515-14-8, S-Dimethenamid 168088-61-7, Pyribenzoxim 174514-07-9, JV 485 185119-76-0, Iodosulfuron 188634-90-4, Ethoxyfen 188735-26-4, Fluorbentranil 192708-91-1, Ketospiradox 209866-92-2, Isoxadifen

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in synergistic herbicidal mixts. comprising benzoyl derivs. and pyrimidine derivs.)

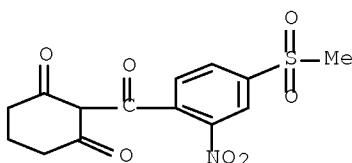
IT 104206-82-8, Mesotriione

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in synergistic herbicidal mixts. comprising benzoyl derivs. and pyrimidine derivs.)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:1006677 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:24500

TITLE: Cyclohexanedione herbicide composition comprising an

INVENTOR(S): organic phosphate adjuvant
 Piper, Catherine Julia; Stock, David; Hall, Gavin
 John; Sutton, Peter Bernard

PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003105589	A1	20031224	WO 2003-GB2428	20030604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2484544	A1	20031224	CA 2003-2484544	20030604
AU 2003232935	A1	20031231	AU 2003-232935	20030604
BR 2003011717	A	20050301	BR 2003-11717	20030604
EP 1515608	A1	20050323	EP 2003-727734	20030604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1658756	A	20050824	CN 2003-813521	20030604
JP 2005529174	T	20050929	JP 2004-512508	20030604
ZA 2004008510	A	20051013	ZA 2004-8510	20041020
US 20050096226	A1	20050505	US 2004-700	20041201
MX 2004PA12284	A	20050225	MX 2004-PA12284	20041207
US 20050202975	A1	20050915	US 2004-517873	20041213
PRIORITY APPLN. INFO.:			GB 2002-13638	A 20020613
			WO 2003-GB2428	W 20030604

OTHER SOURCE(S): MARPAT 140:24500

ED Entered STN: 26 Dec 2003

AB A herbicidal composition comprising a 2-(substituted benzoyl)-1,3-cyclohexanedione, preferably mesotrione, and an organic phosphate, phosphonate or phosphinate adjuvant at a concentration of <0.5% volume/volume when added to a spray tank as a tank mix additive or when co-formulated with a herbicide to produce a spray tank concentration of <0.5% volume/volume, is disclosed.

IC ICM A01N041-10
 ICS A01N041-04; A01N035-06; A01N025-04; A01N025-00

CC 5-3 (Agrochemical Bioregulators)

ST cyclohexanedione herbicide compn org phosphate adjuvant

IT Herbicides
 Pesticide formulations
 (cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

IT 99105-77-8 104206-80-6 104206-82-8, Mesotrione 126070-60-8
 145665-36-7 634187-29-4
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

IT 78-42-2, Tri(2-ethylhexyl) phosphate 126-63-6,
 Bis(2-ethylhexyl)-2-ethylhexyl phosphonate 126-73-8, Tributyl

phosphate, biological studies

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

IT 14265-44-2, Phosphate, uses 15477-76-6, Phosphonate

RL: MOA (Modifier or additive use); USES (Uses)

(organic; cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

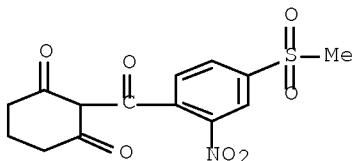
IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:1006676 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:24499

TITLE: Safened herbicidal compositions based on chelated benzoylcyclohexanedione derivatives

INVENTOR(S): Piper, Catherine Julia; Stock, David; Hall, Gavin John; Sutton, Peter Bernard

PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003105588	A1	20031224	WO 2003-GB2423	20030604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2480898	A1	20031224	CA 2003-2480898	20030604

AU 2003240070	A1	20031231	AU 2003-240070	20030604
BR 2003009414	A	20050201	BR 2003-9414	20030604
EP 1515609	A1	20050323	EP 2003-732684	20030604
EP 1515609	B1	20080423		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 392811	T	20080515	AT 2003-732684	20030604
ES 2301801	T3	20080701	ES 2003-732684	20030604
MX 2004PA10865	A	20050125	MX 2004-PA10865	20041101
US 20050202972	A1	20050915	US 2004-517872	20041213
PRIORITY APPLN. INFO.:			GB 2002-13654	A 20020613
			WO 2003-GB2423	W 20030604

OTHER SOURCE(S): MARPAT 140:24499

ED Entered STN: 26 Dec 2003

AB A novel herbicidal composition comprising a metal chelate of a 2-(substituted benzoyl)-1,3-cyclohexanedione (Markush given) and an organic phosphate, phosphonate, or phosphinate adjuvant shows improved activity with little or no increase in crop damage. Thus, mesotrione copper salt + 0.5% tri-Bu phosphate sprayed at 320 g/ha gave 97% control of Echinochloa crus-galli with no damage to two maize varieties.

IC ICM A01N041-10
ICS A01N035-06; A01N057-20

CC 5-3 (Agrochemical Bioregulators)

ST herbicide benzoylcyclohexanedione chelate phosphate phosphonate adjuvant; phosphinate safener benzoylcyclohexanedione chelate herbicide

IT Phosphates, biological studies
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(mixts. with chelates of benzoylcyclohexanediones; safened herbicidal compns.)

IT Herbicides
(selective; metal chelates of benzoylcyclohexanediones safened with organic phosphates, phosphonates, or phosphinates)

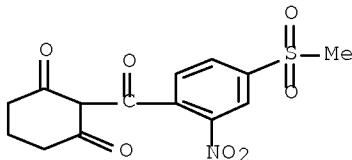
IT 78-42-2D, Tri(2-ethylhexyl) phosphate, mixture with mesotrione copper salt 78-46-6D, Dibutyl butyl phosphonate, mixture with mesotrione copper salt 126-63-6D, Bis(2-ethylhexyl)2-ethylhexyl phosphonate, mixture with mesotrione copper salt 126-73-8D, Tributyl phosphate, mixture with mesotrione copper salt 298-07-7D, Bis(2-ethylhexyl) hydrogen phosphate, mixture with mesotrione copper salt 7440-50-8D, Copper, mesotrione complexes 52894-02-7D, mixture with mesotrione copper salt RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(safened herbicidal composition)

IT 6303-21-5D, Phosphinic acid, derivs., mixts. with chelates of benzoylcyclohexanediones 13598-36-2D, Phosphonic acid, derivs., mixts. with chelates of benzoylcyclohexanediones 69629-50-1D, 2-Benzoyl-1,3-cyclohexanedione, derivs., metal chelates, mixts. with phosphates, phosphonates, and phosphinates 99105-77-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 104206-80-6D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 104206-82-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 126070-60-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 145665-36-7D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 634187-29-4D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(safened herbicidal compns.)

IT 104206-82-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (safened herbicidal compns.)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:242096 CAPLUS Full-text
 DOCUMENT NUMBER: 138:267186
 TITLE: Herbicidal mixtures based on 3-phenyluracils
 INVENTOR(S): Zagar, Cyrill; Sievernich, Bernd; Quakenbush, Laura;
 Evans, Richard R.; Landes, Max; Newsom, Larry J.;
 Ortlip, Charles L.; Witschel, Matthias; Landes, Andreas
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 84 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

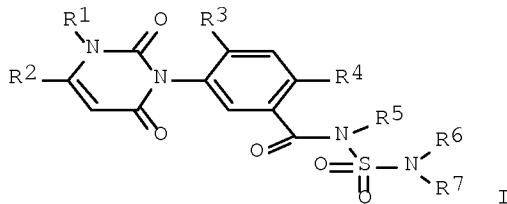
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024221	A1	20030327	WO 2002-EP10136	20020910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2460088	A1	20030327	CA 2002-2460088	20020910
AU 2002342671	A1	20030401	AU 2002-342671	20020910
EP 1429609	A1	20040623	EP 2002-779329	20020910
EP 1429609	B1	20070307		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012460	A	20041019	BR 2002-12460	20020910
CN 1555219	A	20041215	CN 2002-817977	20020910

JP 2005502715	T 20050127	JP 2003-528125	20020910
HU 2004002256	A2 20050329	HU 2004-2256	20020910
HU 2004002256	A3 20051128		
NZ 531486	A 20050826	NZ 2002-531486	20020910
AT 355747	T 20070315	AT 2002-779329	20020910
ES 2281550	T3 20071001	ES 2002-779329	20020910
TW 252078	B 20060401	TW 2002-9120878	20020912
MX 2004PA02087	A 20040607	MX 2004-PA2087	20040304
US 20040235665	A1 20041125	US 2004-488977	20040309
US 7375058	B2 20080520		
NO 2004001031	A 20040311	NO 2004-1031	20040311
IN 2004CN00546	A 20051223	IN 2004-CN546	20040312
ZA 2004002791	A 20050413	ZA 2004-2791	20040413
HR 2004000337	B1 20070930	HR 2004-337	20040413
PRIORITY APPLN. INFO.:		US 2001-318834P	P 20010914
		US 2001-333135P	P 20011127
		WO 2002-EP10136	W 20020910

OTHER SOURCE(S): MARPAT 138:267186

ED Entered STN: 28 Mar 2003

GI

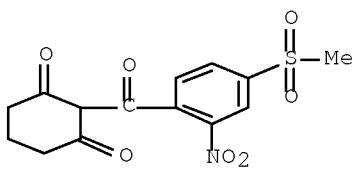


AB Herbidically active compns., comprise: (A) at least one phenyluracil compound I (R1 = Me, or NH2; R2 = C1-C2-haloalkyl; R3 = H, or halo; R4 = halo, or cyano; R5 = H, cyano, C1-C6-alkyl, C1-C6-alkoxy, C1-C4-alkoxy-C1-C4-alkyl, C3-C7-cycloalkyl, C3-C6-alkenyl, C3-C6-alkynyl, or (un)substituted benzyl; R6, R7 = H, (un)substituted C1-C6-alkyl, C1-C6-alkoxy, C3-C6-alkenyl, C3-C6-alkynyl, C3-C7-cycloalkyl, C3-C7-cycloalkenyl, Ph or benzyl) and/or at least one of its agriculturally acceptable salts; and at least one further active compound, selected from (B) herbicides of classes (b1) to (b15): (b1) lipid biosynthesis inhibitors; (b2) acetolactate synthase inhibitors (ALS inhibitors); (b3) photosynthesis inhibitors; (b4) protoporphyrinogen-IX oxidase inhibitors; (b5) bleacher herbicides; (b6) enolpyruvyl shikimate 3-phosphate synthase inhibitors (EPSP inhibitors); (b7) glutamine synthetase inhibitors; (b8) 7,8-dihydropteroate synthase inhibitors (DHP inhibitors); (b9) mitosis inhibitors; (b10) inhibitors of the synthesis of very long chain fatty acids (VLCFA inhibitors); (b11) cellulose biosynthesis inhibitors; (b12) decoupler herbicides; (b13) auxin herbicides; (b14) auxin transport inhibitors; (b15) other herbicides. The herbicides in (b15) are selected from the group consisting of benzoylprop, flamprop, flamprop-M, bromobutide, chlorflurenol, cinmethylin, methyldymron, etobenzanid, fosamine, metam, pyributicarb, oxaziclofone, dazomet, triaziflam and Me bromide. The compns. based on 3-phenyluracils I may also include safeners selected from benoxacor, cloquintocet, cyometrinil, dichlormid, dicyclonon, dietholate, fenchlorazole, fenclorim, flurazole, fluxofenim, furilazole, isoxadifen, mefenpyr, mephenate, naphthalic anhydride, 2,2,5-trimethyl-3-(dichloroacetyl)-1,3-oxazolidine, 4-(dichloroacetyl)-1-oxa-4-azaspiro[4.5]decane and oxabutrinil, and agriculturally acceptable salts of the active compds.

IC ICM A01N043-54
 ICS A01N061-00
 CC 5-3 (Agrochemical Bioregulators)
 IT 74712-19-9D, Bromobutide, mixts. with 3-phenyluracil derivs.
 74782-23-3D, Oxabetrinil, mixts. with 3-phenyluracil derivs.
 76120-02-0D, Etnipromid, mixts. with 3-phenyluracil derivs. 76578-12-6D,
 Quizalofop, mixts. with 3-phenyluracil derivs. 76636-10-7D, Amibuzin,
 mixts. with 3-phenyluracil derivs. 77227-69-1D, Halosafen, mixts. with
 3-phenyluracil derivs. 77501-60-1D, Fluoroglycofen, mixts. with
 3-phenyluracil derivs. 77501-63-4D, Lactofen, mixts. with 3-phenyluracil
 derivs. 78168-93-1D, Ametridione, mixts. with 3-phenyluracil derivs.
 78863-62-4D, Flufenican, mixts. with 3-phenyluracil derivs. 79277-67-1D,
 Thifensulfuron, mixts. with 3-phenyluracil derivs. 79510-48-8D,
 Metsulfuron, mixts. with 3-phenyluracil derivs. 79540-50-4D,
 Etobenzanid, mixts. with 3-phenyluracil derivs. 80020-41-3D,
 Furyloxyfen, mixts. with 3-phenyluracil derivs. 81334-34-1D, Imazapyr,
 mixts. with 3-phenyluracil derivs. 81335-37-7D, Imazaquin, mixts. with
 3-phenyluracil derivs. 81335-77-5D, Imazethapyr, mixts. with
 3-phenyluracil derivs. 81777-89-1D, Clomazone, mixts. with
 3-phenyluracil derivs. 82097-50-5D, Triasulfuron, mixts. with
 3-phenyluracil derivs. 82558-50-7D, Isoxaben, mixts. with 3-phenyluracil
 derivs. 82692-44-2D, Benzofenap, mixts. with 3-phenyluracil derivs.
 83066-88-0D, Fluazifop-P, mixts. with 3-phenyluracil derivs.
 83164-33-4D, Diflufenican, mixts. with 3-phenyluracil derivs.
 84087-01-4D, Quinchlorac, mixts. with 3-phenyluracil derivs. 84478-52-4D,
 Flumipropyn, mixts. with 3-phenyluracil derivs. 84496-56-0D, Clomeprop,
 mixts. with 3-phenyluracil derivs. 85785-20-2D, Esprocarb, mixts. with
 3-phenyluracil derivs. 86763-47-5D, Propisochlor, mixts. with
 3-phenyluracil derivs. 87310-56-3D, Butenachlor, mixts. with
 3-phenyluracil derivs. 87392-12-9D, S-Metolachlor, mixts. with
 3-phenyluracil derivs. 87547-04-4D, Flumiclorac, mixts. with
 3-phenyluracil derivs. 87674-68-8D, Dimethenamid, mixts. with
 3-phenyluracil derivs. 87757-18-4D, Isoxapyrifop, mixts. with
 3-phenyluracil derivs. 87818-31-3D, Cinmethylin, mixts. with
 3-phenyluracil derivs. 87820-88-0D, Tralkoxydim, mixts. with
 3-phenyluracil derivs. 88349-88-6D, Cloquintocet, mixts. with
 3-phenyluracil derivs. 88485-37-4D, Fluxofenim, mixts. with
 3-phenyluracil derivs. 88678-67-5D, Pyributicarb, mixts. with
 3-phenyluracil derivs. 90134-59-1D, Flamprop-M, mixts. with
 3-phenyluracil derivs. 90717-03-6D, Quinmerac, mixts. with
 3-phenyluracil derivs. 94051-08-8D, Quizalof op-P, mixts. with
 3-phenyluracil derivs. 94125-34-5D, Prosulfuron, mixts. with
 3-phenyluracil derivs. 94593-91-6D, Cinosulfuron, mixts. with
 3-phenyluracil derivs. 95480-33-4D, Cloproxydim, mixts. with
 3-phenyluracil derivs. 95617-09-7D, Fenoaxaprop, mixts. with
 3-phenyluracil derivs. 95977-29-0D, Haloxyfop-P, mixts. with
 3-phenyluracil derivs. 96491-05-3D, Thenylchlor, mixts. with
 3-phenyluracil derivs. 96525-23-4D, Flurtamone, mixts. with
 3-phenyluracil derivs. 97886-45-8D, Dithiopyr, mixts. with
 3-phenyluracil derivs. 98389-04-9D, Pyrazosulfuron, mixts. with
 3-phenyluracil derivs. 98730-04-2D, Benoxacor, mixts. with
 3-phenyluracil derivs. 98967-40-9D, Flumetsulam, mixts. with
 3-phenyluracil derivs. 99105-77-8D, Sulcotrione, mixts. with
 3-phenyluracil derivs. 99129-21-2D, Clethodim, mixts. with
 3-phenyluracil derivs. 99283-00-8D, Chlorimuron, mixts. with
 3-phenyluracil derivs. 99283-01-9D, Bensulfuron, mixts. with
 3-phenyluracil derivs. 99662-11-0D, Nipyraclofen, mixts. with
 3-phenyluracil derivs. 100728-84-5D, Imazamethabenz, mixts. with
 3-phenyluracil derivs. 101205-02-1D, Cycloxydim, mixts. with
 3-phenyluracil derivs. 103112-36-3D, Fenchlorazole, mixts. with

3-phenyluracil derivs.	103361-09-7D, Flumioxazin, mixts. with
3-phenyluracil derivs.	104040-78-0D, Flazasulfuron, mixts. with
3-phenyluracil derivs.	104098-48-8D, Imazapic, mixts. with
3-phenyluracil derivs.	104206-82-8D, Mesotrione, mixts. with
3-phenyluracil derivs.	106040-48-6D, Tribenuron, mixts. with
3-phenyluracil derivs.	106700-29-2D, Pethoxamid, mixts. with
3-phenyluracil derivs.	109293-97-2D, Diflufenzopyr, mixts. with
3-phenyluracil derivs.	110956-75-7D, Pentoxyzone, mixts. with
3-phenyluracil derivs.	111353-84-5D, Ethametsulfuron, mixts. with
3-phenyluracil derivs.	111479-05-1D, Propaquizafop, mixts. with
3-phenyluracil derivs.	111578-32-6D, Metobenzuron, mixts. with
3-phenyluracil derivs.	111991-09-4D, Nicosulfuron, mixts. with
3-phenyluracil derivs.	113036-87-6D, Primisulfuron, mixts. with
3-phenyluracil derivs.	113158-40-0D, Fenoxaprop-p, mixts. with
3-phenyluracil derivs.	113614-08-7D, Beflubutamid, mixts. with
3-phenyluracil derivs.	114311-32-9D, Imazamox, mixts. with
3-phenyluracil derivs.	114420-56-3D, Clodinafop, mixts. with
3-phenyluracil derivs.	117718-60-2D, Thiazopyr, mixts. with
3-phenyluracil derivs.	119126-15-7D, Flupoxam, mixts. with
3-phenyluracil derivs.	120162-55-2D, Azimsulfuron, mixts. with
3-phenyluracil derivs.	120890-70-2D, Flupropacil, mixts. with
3-phenyluracil derivs.	121776-33-8D, Furilazole, mixts. with
3-phenyluracil derivs.	122008-78-0D, Cyhalofop, mixts. with
3-phenyluracil derivs.	122548-33-8D, Imazosulfuron, mixts. with
3-phenyluracil derivs.	122836-35-5D, Sulfentrazone, mixts. with
3-phenyluracil derivs.	122931-48-0D, Rimsulfuron, mixts. with
3-phenyluracil derivs.	123249-43-4D, Thidiazimin, mixts. with
3-phenyluracil derivs.	123342-93-8D, Pyrithiobac, mixts. with
3-phenyluracil derivs.	125306-83-4D, Cafenstrole, mixts. with
3-phenyluracil derivs.	125401-75-4D, Bispuryribac, mixts. with
3-phenyluracil derivs.	126801-58-9D, Ethoxysulfuron, mixts. with
3-phenyluracil derivs.	128621-72-7D, Carfentrazone, mixts. with
3-phenyluracil derivs.	129630-17-7D, Pyraflufen, mixts. with
3-phenyluracil derivs.	129909-90-6D, Amicarbazone, mixts. with
3-phenyluracil derivs.	131475-57-5D, Triaziflam, mixts. with
3-phenyluracil derivs.	133220-30-1D, Indanofan, mixts. with
3-phenyluracil derivs.	134605-64-4D, Butafenacil, mixts. with
3-phenyluracil derivs.	135186-78-6D, Pyriflatalid, mixts. with
3-phenyluracil derivs.	135397-30-7D, Halosulfuron, mixts. with
3-phenyluracil derivs.	135591-00-3D, Mefenpyr, mixts. with
3-phenyluracil derivs.	135990-29-3D, Triflusulfuron, mixts. with
3-phenyluracil derivs.	136191-56-5D, Pyriminobac, mixts. with
3-phenyluracil derivs.	136849-15-5D, Cyclosulfamuron, mixts. with
3-phenyluracil derivs.	137641-05-5D, Picolinafen, mixts. with
3-phenyluracil derivs.	138164-12-2D, Butroxydim, mixts. with
3-phenyluracil derivs.	139001-49-3D, Profoxydim, mixts. with
3-phenyluracil derivs.	139528-85-1D, Metosulam, mixts. with
3-phenyluracil derivs.	141112-06-3D, Isoxachlortole, mixts. with
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3-phenyluracil derivs.	142459-58-3D, Flufenacet, mixts. with
3-phenyluracil derivs.	142469-14-5D, Tritosulfuron, mixts. with
3-phenyluracil derivs.	142891-20-1D, Cinidon-ethyl, mixts. with
3-phenyluracil derivs.	144651-06-9D, Oxasulfuron, mixts. with
3-phenyluracil derivs.	145026-81-9D, Propoxycarbazone, mixts. with
3-phenyluracil derivs.	145026-88-6D, Flucarbazone, mixts. with
3-phenyluracil derivs.	145099-21-4D, Trifloxyulfuron, mixts. with
3-phenyluracil derivs.	145701-21-9D, Diclosulam, mixts. with
3-phenyluracil derivs.	145701-23-1D, Florasulam, mixts. with
3-phenyluracil derivs.	149253-65-6D, Fluthiacet, mixts. with

3-phenyluracil derivs.	149979-41-9D, Tepraloxydim, mixts. with			
3-phenyluracil derivs.	150315-10-9D, Flupyralsulfuron, mixts. with			
3-phenyluracil derivs.	153197-14-9D, Oxaziclofone, mixts. with			
3-phenyluracil derivs.	156963-66-5D, Benzobicyclon, mixts. with			
3-phenyluracil derivs.	158237-07-1D, Fentrazamide, mixts. with			
3-phenyluracil derivs.	158353-15-2D, Pyraclonil, mixts. with			
3-phenyluracil derivs.	158755-95-4D, Benzfendizone, mixts. with			
3-phenyluracil derivs.	159518-97-5D, Cloransulam, mixts. with			
3-phenyluracil derivs.	163515-14-8D, Dimethenamid-P, mixts. with			
3-phenyluracil derivs.	168088-61-7D, Pyribenzoxim, mixts. with			
3-phenyluracil derivs.	173159-57-4D, Foramsulfuron, mixts. with			
3-phenyluracil derivs.	174514-07-9D, Fluazolate, mixts. with			
3-phenyluracil derivs.	180608-33-7D, mixts. with 3-phenyluracil derivs.			
185119-76-0D, Iodosulfuron, mixts. with 3-phenyluracil derivs.				
188490-07-5D, Flufenpyr, mixts. with 3-phenyluracil derivs.				
188634-90-4D, Ethoxyfen, mixts. with 3-phenyluracil derivs.				
190314-43-3D, Profluazol, mixts. with 3-phenyluracil derivs.				
198272-55-8D, mixts. with 3-phenyluracil derivs.	198412-87-2D, mixts. with 3-phenyluracil derivs.			
210576-74-2D, mixts. with 3-phenyluracil derivs.	209866-92-2D, Isoxadifen, mixts. with 3-phenyluracil derivs.			
210631-68-8D, mixts. with 3-phenyluracil derivs.	219714-96-2D, Penoxsulam, mixts. with 3-phenyluracil derivs.			
503188-42-9	503188-43-0	503188-44-1		
503188-45-2	503188-46-3	503188-47-4	503188-48-5	503188-49-6
503188-50-9	503188-51-0	503188-52-1	503188-53-2	503188-54-3
503188-55-4	503188-57-6	503188-58-7	503188-59-8	503188-60-1
503188-61-2	503188-62-3	503188-63-4	503188-64-5	503188-65-6
503188-66-7	503188-67-8	503188-68-9	503188-69-0	503188-70-3
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)				
IT	9023-70-5D, Glutamine synthetase, mixts. with 3-phenyluracil derivs.			
	9055-61-2D, 7,8-Dihydropteroate synthase, mixts. with 3-phenyluracil derivs.			
	9068-73-9D, 5-Enolpyruvyl shikimate 3-phosphate synthase, mixts. with 3-phenyluracil derivs.			
	53986-32-6D, Protoporphyrinogen-IX oxidase, mixts. with 3-phenyluracil derivs.			
IT	104206-82-8D, Mesotrione, mixts. with 3-phenyluracil derivs.			
IT	RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)			
	(inhibitors; herbicidal mixts. containing)			
IT	104206-82-8 CAPLUS			
CN	1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)			



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:832997 CAPLUS Full-text
 DOCUMENT NUMBER: 135:354181
 TITLE: Controlled-release combination of herbicides with polymers by way of hydrogen bridges
 INVENTOR(S): Kocur, Jean; Frisch, Gerhard; Wuertz, Jochen; Bickers, Udo; Hacker, Erwin; Huff, Hans Philipp; Schnabel, Gerhard
 PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany
 SOURCE: PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001084927	A1	20011115	WO 2001-EP5097	20010505
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10022990	A1	20011122	DE 2000-10022990	20000511
CA 2408219	A1	20030115	CA 2001-2408219	20010505
EP 1283671	A1	20030219	EP 2001-940406	20010505
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001010736	A	20030311	BR 2001-10736	20010505
JP 2003532651	T	20031105	JP 2001-581603	20010505
US 20020042345	A1	20020411	US 2001-853314	20010510
MX 2002PA11049	A	20040819	MX 2002-PA11049	20021108
US 20050054532	A1	20050310	US 2004-942235	20040916
PRIORITY APPLN. INFO.:			DE 2000-10022990	A 20000511
			WO 2001-EP5097	W 20010505
			US 2001-853134	A1 20010509

OTHER SOURCE(S): MARPAT 135:354181

ED Entered STN: 16 Nov 2001

AB The invention relates to the combination of a herbicide from the group of the sulfonylureas, with a polymer, while forming hydrogen bridges, for the controlled release of the active substance. The polymer and the active substance have functional groups that facilitate the formation of hydrogen bridges. The preferred polymers are poly(vinyl alc.) or partially-saponified poly(vinyl acetate).

IC ICM A01N025-10

ICS A01N047-36; A01N043-76; A01N043-56

CC 5-4 (Agrochemical Bioregulators)

IT 85-00-7, Diquat 93-65-2, CMPP 94-74-6, MCPA 94-75-7, 2,4-D, biological studies 94-82-6, 2,4-DB 120-36-5, 2,4-DP 1071-83-6, Glyphosate 1689-83-4, Ioxynil 1689-84-5, Bromoxynil 4685-14-7, Paraquat 40843-25-2, Diclofop 51276-47-2, Glufosinate 66441-23-4, Fenoxaprop-ethyl 69335-91-7, Fluazifop 74051-80-2, Sethoxydim 87820-88-0, Tralkoxydim 99105-77-8, Sulcotrione 99129-21-2, Clethodim 104206-82-8, Mesotrione 105512-06-9, Clodinafop-propargyl

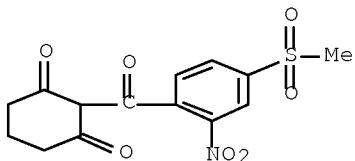
126801-58-9, Ethoxysulfuron 144550-36-7, Iodosulfuron-methyl sodium salt
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (controlled-release combination of herbicides with polymers by way of
 hydrogen bridges)

IT 9002-89-5, Poly(vinyl alcohol) 9003-39-8, PVP 11138-66-2D, Xanthan,
 derivs. 25014-12-4, Poly(meth)acrylamide 25087-26-7, Poly(meth)acrylic
 acid 25191-25-7, Polyvinyl sulfate 25322-68-3, Polyethylene glycol
 25322-69-4, Polypropylene glycol 29690-74-2, Polyvinyl phosphate
 37353-59-6, Hydroxymethylcellulose 50851-57-5 138919-50-3
 RL: MOA (Modifier or additive use); USES (Uses)
 (controlled-release combination of herbicides with polymers by way of
 hydrogen bridges)

IT 104206-82-8, Mesotriione
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (controlled-release combination of herbicides with polymers by way of
 hydrogen bridges)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX
 NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d .ca hitstr 126 1-2

L26 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:292495 CAPLUS Full-text
 DOCUMENT NUMBER: 144:306893
 TITLE: Pesticidal compositions containing phosphoric acid
 ester adjuvants
 INVENTOR(S): Hess, Joachim; Zerrer, Ralf; Sowa, Christian
 PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany
 SOURCE: Ger. Offen., 11 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004047092	A1	20060330	DE 2004-102004047092	20040929
CA 2581183	A1	20060406	CA 2005-2581183	20050922
WO 2006034817	A2	20060406	WO 2005-EP10255	20050922
WO 2006034817	A3	20060713		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,

GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1799036 A2 20070627 EP 2005-792050 20050922

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101076246 A 20071121 CN 2005-80032756 20050922

JP 2008514664 T 20080508 JP 2007-533920 20050922

BR 2005015958 A 20080812 BR 2005-15958 20050922

MX 200703730 A 20070423 MX 2007-3730 20070328

KR 2007057879 A 20070607 KR 2007-707076 20070328

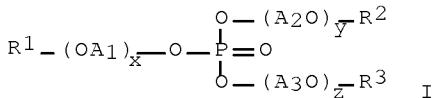
US 20070275854 A1 20071129 US 2007-664329 20070724

PRIORITY APPLN. INFO.: DE 2004-102004047092A 20040929
WO 2005-EP10255 W 20050922

OTHER SOURCE(S): MARPAT 144:306893

ED Entered STN: 30 Mar 2006

GI



AB Compns. are described, containing: (a) pesticides or phytohormones, and (b) alkyl or alkylaryl phosphoric acid ester adjuvants, the esters comprising ≥ 1 branched alkyl groups. The phosphoric acid esters are I ($\text{R}^1 = \text{C}_6\text{-30 alkyl or alkenyl or alkylphenyl}$; $\text{R}^2, \text{R}^3 = \text{H, alkali metal, alkaline-earth metal, etc.}$; $\text{A}_1, \text{A}_2, \text{A}_3 = \text{alkylene}$; $x, y, z = 10, 1\text{-}30$). The adjuvants enhance the activity of the active ingredient.

CC 5-4 (Agrochemical Bioregulators)

IT 50-31-7, 2,3,6-TBA 61-82-5, Amitrol 75-99-0, Dalapon 76-03-9, TCA, biological studies 79-11-8, Chloroacetic acid, biological studies 85-00-7, Diquat 85-34-7, Fenac 93-65-2, Mecoprop 94-74-6, MCPA 94-75-7, 2,4-D, biological studies 94-81-5, MCPB 94-82-6, 2,4-DB 107-02-8, Acrolein, biological studies 112-05-0, Nonanoic acid 120-36-5, Dichloroprop 122-34-9, Simazin 124-58-3 132-66-1, Naptalam 133-90-4, Chloramben 139-40-2, Propazin 145-73-3, Endothall 314-40-9, Bromacil 330-54-1, Diuron 330-55-2, Linuron 555-37-3, Neburon 756-09-2, Flupropanate 834-12-8, Ametryn 1014-69-3, Desmetryn 1014-70-6, Simetryn 1071-83-6, Glyphosate 1194-65-6 1610-18-0, Prometon 1689-83-4, Ioxynil 1689-84-5, Bromoxynil 1702-17-6, Clopyralid 1836-77-7, Chlornitrofen 1861-32-1, Chlorthal-dimethyl 1912-24-9, Atrazin 1912-26-1, Triethazine 1918-00-9, Dicamba 1918-02-1, Picloram 1918-16-7, Propachlor 1982-49-6, Siduron 2164-08-1, Lenacil 2164-17-2, Fluometuron 3337-71-1, Asulam 3740-92-9, Fenclorim 3813-05-6, Benazolin 4685-14-7, Paraquat 5329-14-6, Sulfaminic acid 7287-19-6, Prometryn 13181-17-4, Bromofenoxt 13360-45-7 13684-56-5, Desmedipham

13684-63-4, Phenmedipham 15545-48-9, Chlorotoluron 15972-60-8,
 Metachlor 19044-88-3, Oryzalin 19666-30-9, Oxadiazon 21725-46-2,
 Cyanazin 22936-75-0, Dimethametryn 23184-66-9, Butachlor 23950-58-5,
 Propyzamide 25057-89-0, Bentazon 27314-13-2, Norflurazon 29091-05-2,
 Dinitramine 29091-21-2, Prodiamine 32861-85-1, Chlomethoxyfen
 33693-04-8, Terbumeton 34123-59-6, Isoproturon 34205-21-5, Dimefuron
 34256-82-1, Acetochlor 35597-43-4, Bialaphos 40843-25-2, Diclofop
 42576-02-3, Bifenox 42609-52-9 42874-03-3, Oxyfluorfen 49866-87-7,
 Difenoquat 50563-36-5, Dimethachlor 50594-66-6, Acifluorfen
 51218-49-6, Pretilachlor 51276-47-2, Glufosinate 52570-16-8,
 Naproanilide 58011-68-0, Pyrazolynate 58667-63-3, Flamprop
 59682-52-9, Fosamine 59756-60-4, Fluridone 66441-23-4, Fenoxypropethyl
 69335-91-7, Fluazifop 69806-34-4, Haloxyfop 72178-02-0, Fomesafen
 73250-68-7, Mefenacet 74070-46-5, Aclonifen 74712-19-9, Bromobutide
 76578-12-6, Quizalofop 76578-14-8, Quizalof opethyl 77501-60-1,
 Fluoroglycofen 77501-63-4, Lactofen 79241-46-6 81334-34-1, Imazapyr
 81335-37-7, Imazaquin 81335-77-5, Imazethapyr 82558-50-7, Isoxaben
 82692-44-2, Benzofenap 83055-99-6, Bensulfuronmethyl 83164-33-4,
 Diflufenican 84087-01-4, Quinclorac 84496-56-0, Clomeprop
 86763-47-5, Propisochlor 87547-04-4, ,Flumiclorac 87674-68-8,
 Dimethenamid 87757-18-4, Isoxapyrifop 87820-88-0, Tralkoxydim
 88678-67-5, Pyributicarb 90982-32-4, Chlorimuronethyl 93697-74-6,
 Pyrazosulfuronethyl 95617-09-7, Fenoxyprop 96491-05-3, Thenylchlor
 96525-23-4, Flurtamone 97780-06-8, Ethametsulfuronmethyl 98967-40-9,
 Flumetsulam 100728-84-5, Imazamethabenz 101917-66-2, Imazethapyr
 ammonium 103361-09-7, Flumioxazin 104040-78-0, Flazasulfuron
 104098-48-8, Imazapic 104206-82-8, Mesotrione 105512-06-9,
 Clodinafop-propargyl 111578-32-6, Metobenzuron 114311-32-9, Imazamox
 114420-56-3, Clodinafop 117718-60-2, Thiazopyr 119126-15-7, Flupoxam
 122931-48-0, Rimsulfuron 134605-64-4, Butafenacil
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (pesticidal compns. containing phosphoric acid ester adjuvants)

IT 7664-38-2D, Phosphoric acid, esters 73038-25-2 854019-73-1

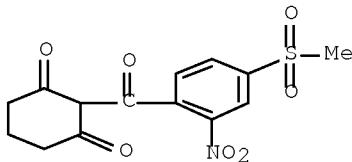
RL: MOA (Modifier or additive use); USES (Uses)
 (pesticidal compns. containing phosphoric acid ester adjuvants)

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (pesticidal compns. containing phosphoric acid ester adjuvants)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)

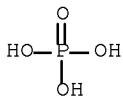


IT 7664-38-2D, Phosphoric acid, esters

RL: MOA (Modifier or additive use); USES (Uses)
 (pesticidal compns. containing phosphoric acid ester adjuvants)

RN 7664-38-2 CAPLUS

CN Phosphoric acid (CA INDEX NAME)



L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:637453 CAPLUS Full-text
 DOCUMENT NUMBER: 137:151335
 TITLE: Suspending system for herbicidal aqueous suspension
 concentrates comprising silica and an
 alkylpolyvinylpyrrolidone
 INVENTOR(S): Griffiths, Andrew John; Barnett, Sarah Elizabeth
 PATENT ASSIGNEE(S): Syngenta Limited, UK
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002063956	A1	20020822	WO 2002-GB468	20020204
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002228215	A1	20020828	AU 2002-228215	20020204
HU 2003002101	A2	20030929	HU 2003-2101	20020204
HU 2003002101	A3	20051128		
EP 1361791	A1	20031119	EP 2002-710164	20020204
EP 1361791	B1	20060802		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004522760	T	20040729	JP 2002-563767	20020204
JP 4015950	B2	20071128		
AT 334588	T	20060815	AT 2002-710164	20020204
ES 2271226	T3	20070416	ES 2002-710164	20020204
BG 107911	A	20040831	BG 2003-107911	20030613
US 20040082481	A1	20040429	US 2003-467744	20030812
NO 2003003615	A	20030814	NO 2003-3615	20030814
PRIORITY APPLN. INFO.:			GB 2001-3761	A 20010215
			WO 2002-GB468	W 20020204

ED Entered STN: 23 Aug 2002
 AB An aqueous suspension concentrate formulation of insol. or partially soluble agrochem. active ingredient, such as herbicides mesotrione or sulcotrione, includes a suspending system comprising silica and an alkylpolyvinylpyrrolidone.
 IC ICM A01N025-04
 CC 5-3 (Agrochemical Bioregulators)
 IT 111-87-5, Octan-1-ol, uses 7664-38-2, Phosphoric acid, uses 9005-64-5, Tween 20 106392-12-5, Pluronic PE10500 189200-54-2,

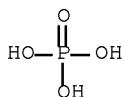
Antifoam MSA
 RL: MOA (Modifier or additive use); USES (Uses)
 (adjuvant component for herbicidal suspension concs. comprising silica and alkylpolyvinylpyrrolidone as suspending system)

IT 99105-77-8, Sulcotrione 104206-82-8, Mesotrione
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (suspending system comprising silica and alkylpolyvinylpyrrolidone for aqueous suspension concs. of)

IT 7664-38-2, Phosphoric acid, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (adjuvant component for herbicidal suspension concs. comprising silica and alkylpolyvinylpyrrolidone as suspending system)

RN 7664-38-2 CAPLUS

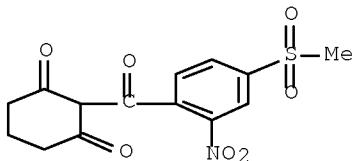
CN Phosphoric acid (CA INDEX NAME)



IT 104206-82-8, Mesotrione
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (suspending system comprising silica and alkylpolyvinylpyrrolidone for aqueous suspension concs. of)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his nofile

(FILE 'REGISTRY' ENTERED AT 13:59:44 ON 11 SEP 2008)
 DEL HIS Y
 ACT QAZI/A

 L1 STR
 L2 165 SEA FAM FUL L1

 ACT PHOS/A

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E (P4O123-) "/CN
 L4 (2) SEA ABB=ON PLU=ON (PHOSPHONATE/CN OR "PHOSPHONATE (H₂PO₃1-) " /
 CN OR "PHOSPHONATE (HPO₃2-) " /CN)
 L5 (1) SEA ABB=ON PLU=ON (PHOSPHINATE/CN OR "PHOSPHINATE (H₂PO₂1-) " /
 CN)
 L6 9 SEA ABB=ON PLU=ON (L3 OR L4 OR L5)

 E PHOSPHORIC ACID/CN
 L7 1 SEA ABB=ON PLU=ON "PHOSPHORIC ACID"/CN
 D SCAN

FILE 'CAPLUS' ENTERED AT 14:00:26 ON 11 SEP 2008
 L8 333 SEA ABB=ON PLU=ON L2
 L9 125003 SEA ABB=ON PLU=ON L6 OR L7
 L10 76200 SEA ABB=ON PLU=ON L7
 L11 77136 SEA ABB=ON PLU=ON HERBICIDE?/OBI
 L12 135 SEA ABB=ON PLU=ON L10 AND L11
 L13 24654 SEA ABB=ON PLU=ON ADJUVANT?/OBI
 L14 9 SEA ABB=ON PLU=ON L12 AND L13
 L15 3 SEA ABB=ON PLU=ON L8 AND L10

FILE 'REGISTRY' ENTERED AT 14:02:18 ON 11 SEP 2008

FILE 'CAPLUS' ENTERED AT 14:02:31 ON 11 SEP 2008
 L*** DEL 3 S L8 AND L10
 D SCAN TI
 L16 4 SEA ABB=ON PLU=ON L9 AND L8
 D SCAN TI
 L17 246 SEA ABB=ON PLU=ON L11 AND L9
 L18 11 SEA ABB=ON PLU=ON L17 AND L13
 L19 13 SEA ABB=ON PLU=ON L14 OR L15 OR L16 OR L18
 L20 591961 SEA ABB=ON PLU=ON PHOSPHAT?/OBI
 L21 11 SEA ABB=ON PLU=ON L8 AND L20
 L22 22 SEA ABB=ON PLU=ON L21 OR L19
 L23 2 SEA ABB=ON PLU=ON L21 AND L13
 L24 11 SEA ABB=ON PLU=ON L23 OR L21

FILE 'REGISTRY' ENTERED AT 14:05:47 ON 11 SEP 2008
 D QUE STAT L2

FILE 'REGISTRY' ENTERED AT 14:06:08 ON 11 SEP 2008
 D QUE STAT L2
 D QUE L14
 D QUE L6
 D RN CN L6 1-9
 D QUE L10
 D QUE L7
 D L7

FILE 'CAPLUS' ENTERED AT 14:07:05 ON 11 SEP 2008
 D QUE NOS L24
 D .CA HITSTR L24 1-11
 L25 4 SEA ABB=ON PLU=ON L8 AND (L9 OR L10)
 L26 2 SEA ABB=ON PLU=ON L25 NOT L24
 D SCAN TI
 D QUE NOS L26
 D .CA HITSTR L26 1-2

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